Figure 1

Figure 2

Figure 3

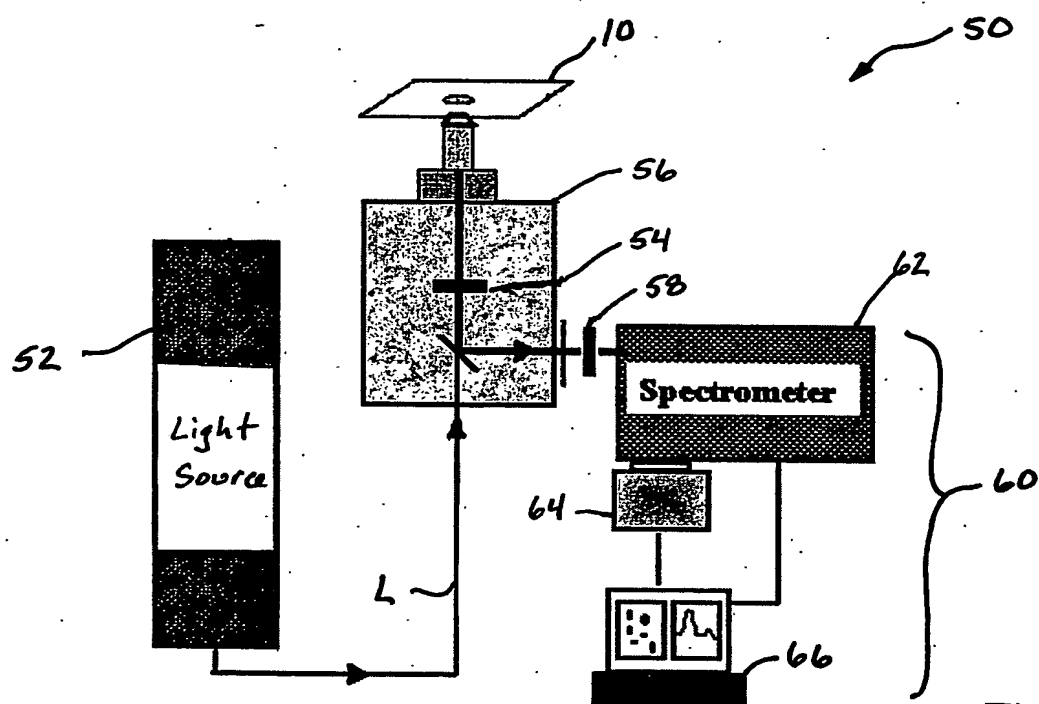**Figure 4**
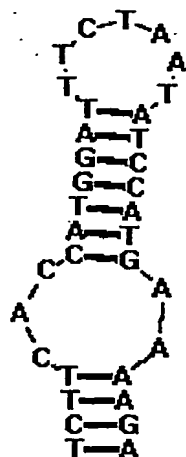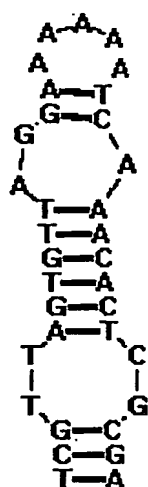
Figure 5

H1

(E = - 7.0)

Figure 6

H2

(E = - 4.3)

Figure 7A

Figure 7B

HP1

(E = -4.4)

HP1-TP1

(E = -43.2)

Figure 8B
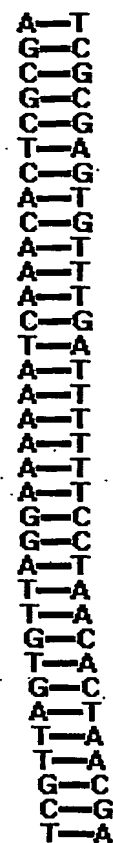
Figure 8A

```
    A—A—A
   A       A
    A—T
    G—C
  G       A
  A
    T—A
    T—A
    G—C
    T—A
    G—C
    A—T
  T       C
  T       G
    G—C
    C—G
    T—A
```

HP2

(E = - 4.7)

```
A—T
G—C
C—G
G—C
C—G
T—A
C—G
A—T
C—G
A—T
A—T
A—T
C—G
T—A
A—T
A—T
A—T
A—T
A—T
A—T
G—C
G—C
A—T
T—A
T—A
G—C
T—A
G—C
A—T
T—A
T—A
G—C
C—G
T—A
```
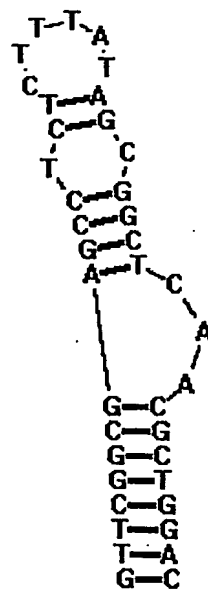
HP2-TP2

(E = - 42.6)

Figure 9

(E = - 10.9)

Figure 10

(E = - 5.6)

H1 (concentration = 2.94 μM)

Figure 11A

T1:H1 10:1; H1 concentration = 0.38 μM

Figure 11B

H2 (concentration = 8.75 μM)

Figure 11C

T2:H2 10:1; H2 concentration = 0.35 μM
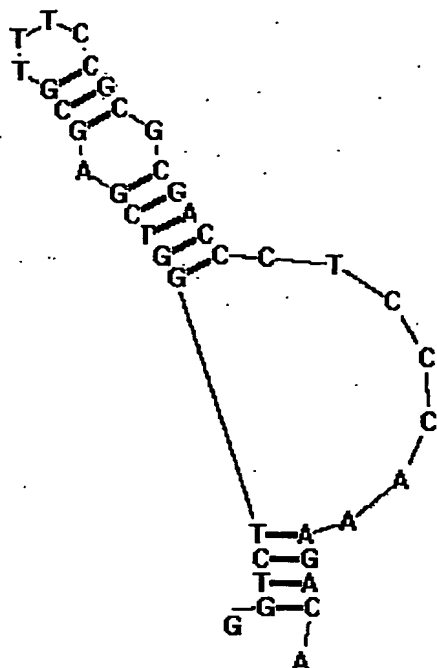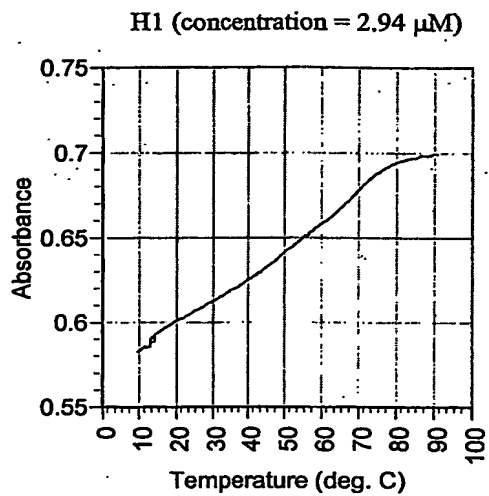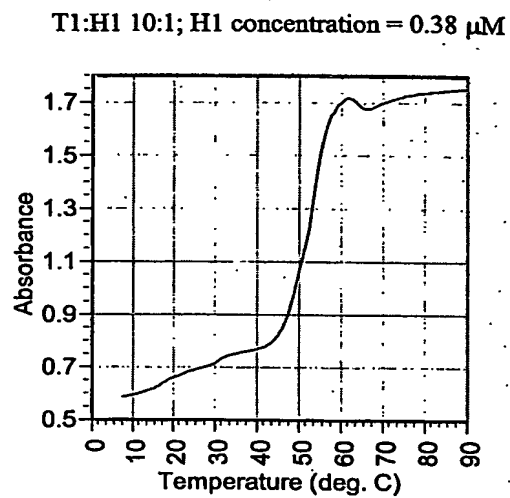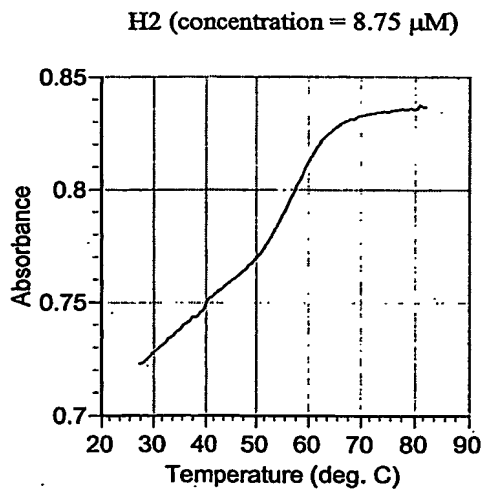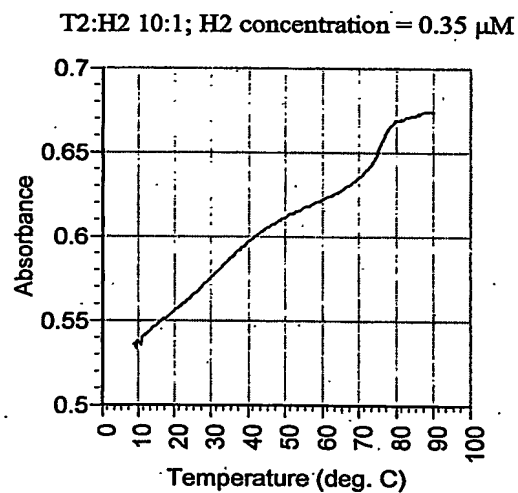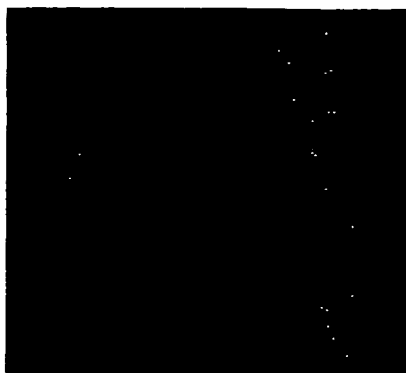
Figure 11D
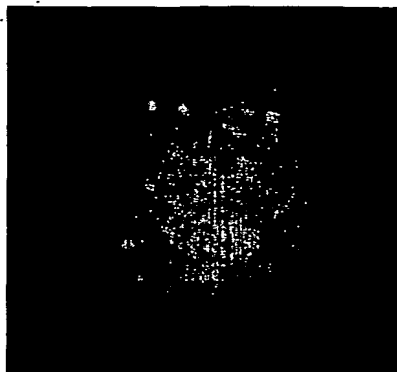
Figure 12A

Figure 12B
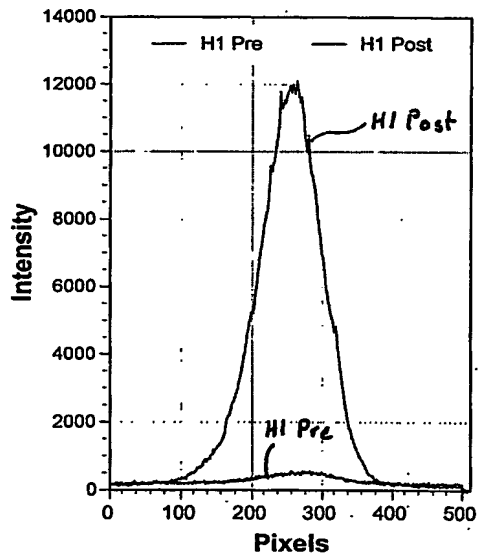
Figure 13A
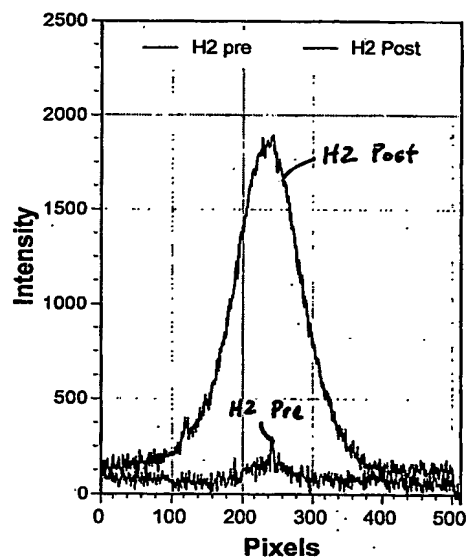
Figure 13B

Figure 14A
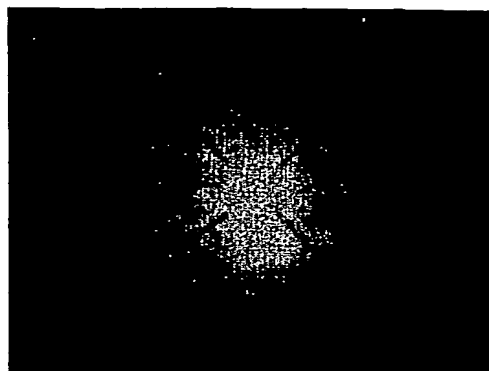
Figure 14B

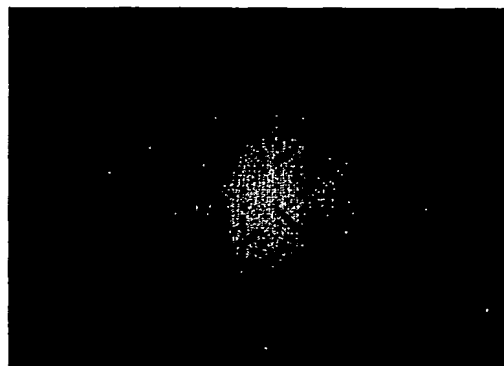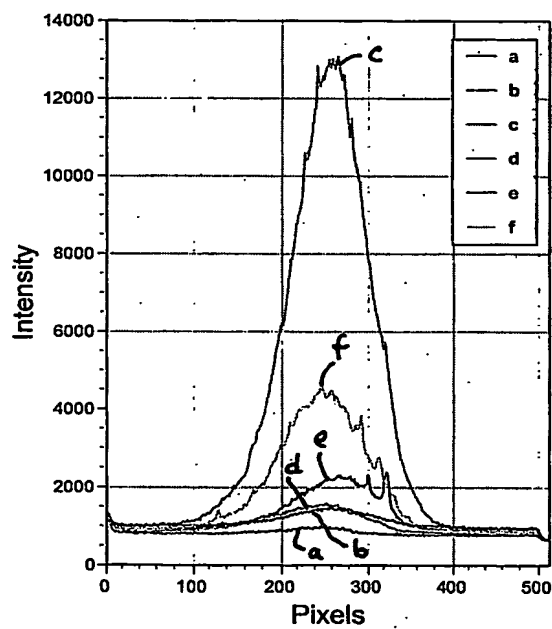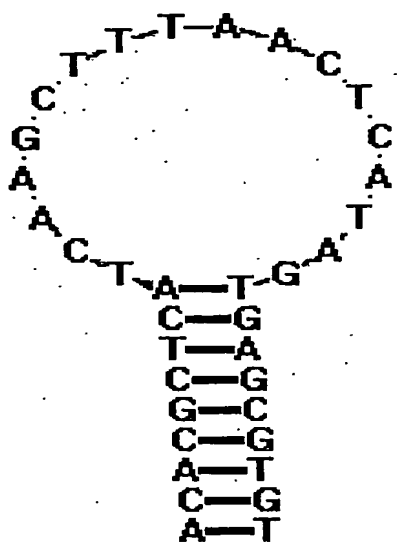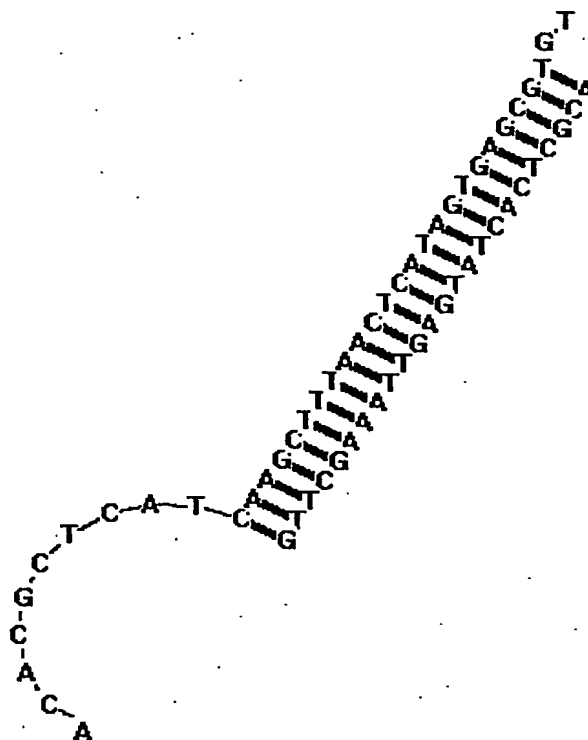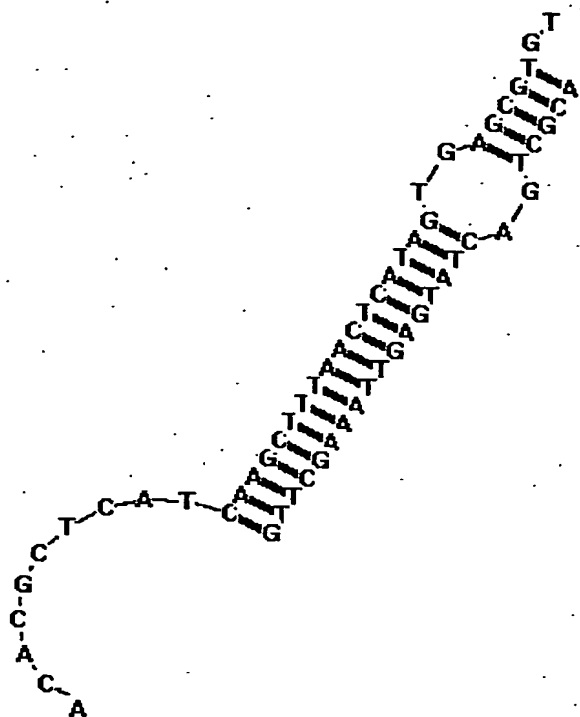**Figure 14C**

Figure 14D

Figure 15A

H3

(E = -8)

Figure 15B

H3-T3

(E = -40.9)

Figure 15C

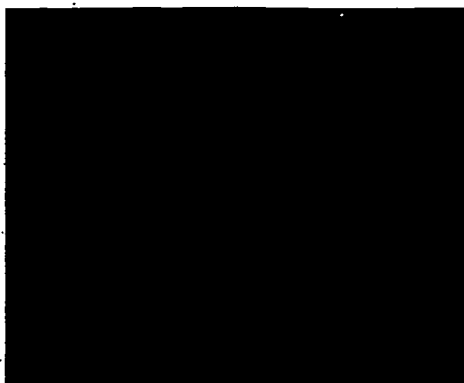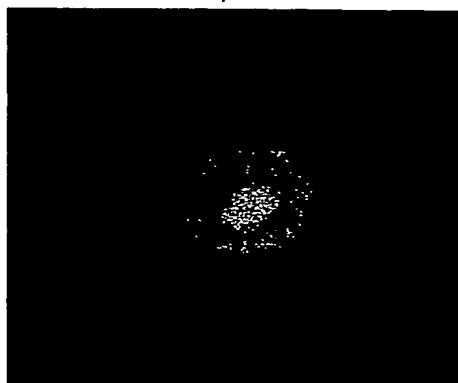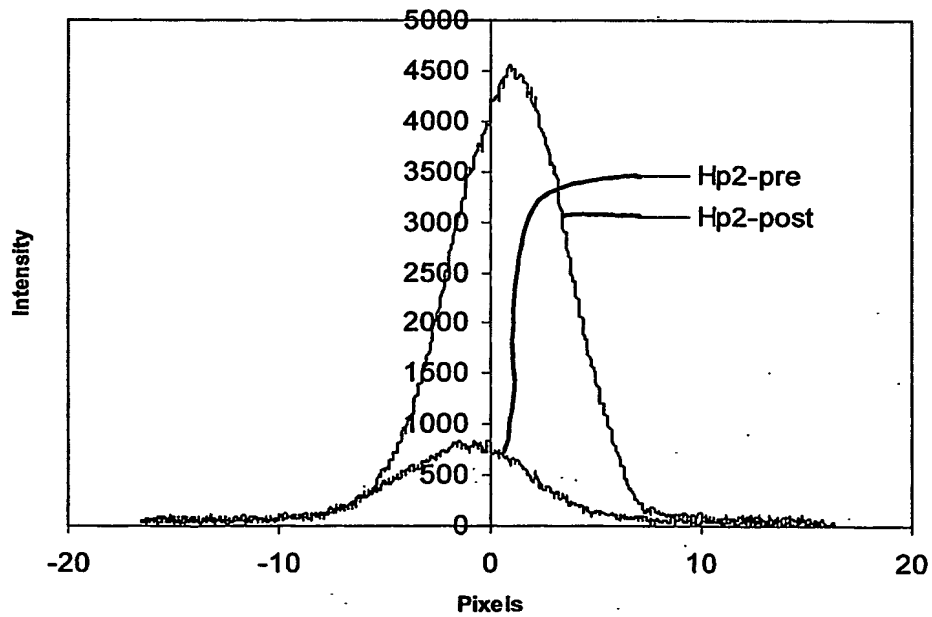
H3-T3M1

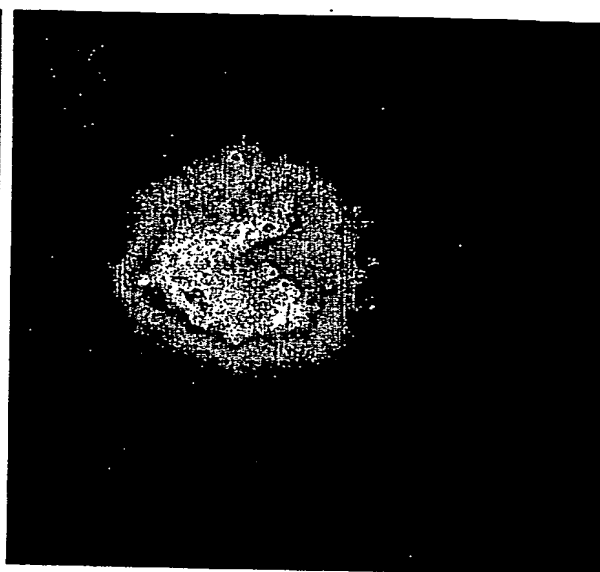(E = -34)
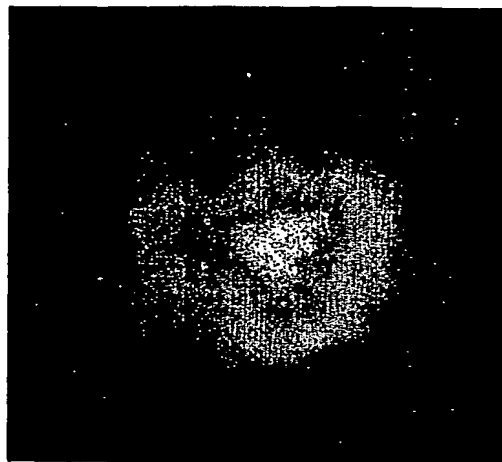
H3-T3

Figure 16A

H3-T3M1

Figure 16B
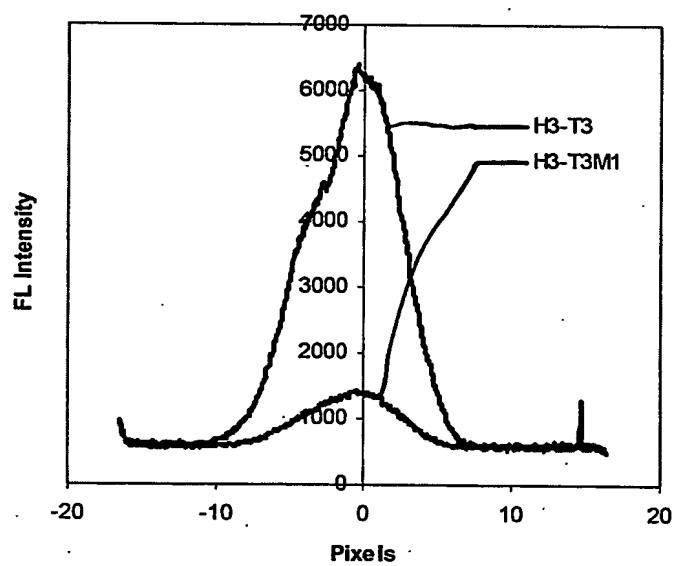
Figure 16C
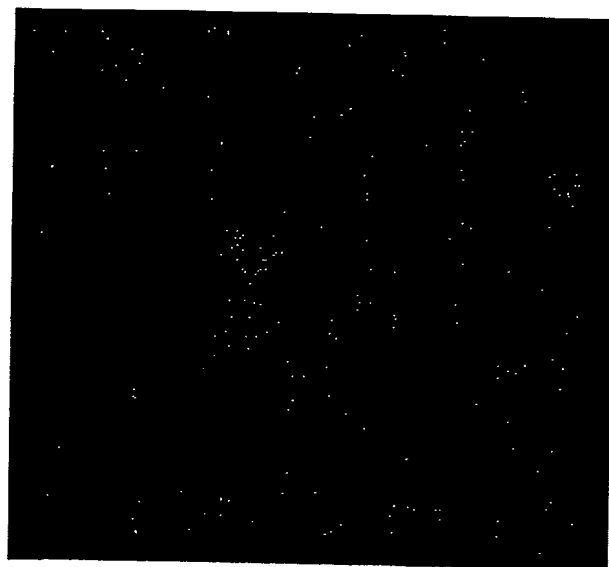
Figure 17A
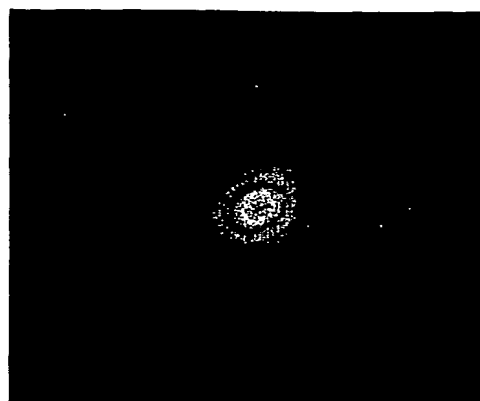
Figure 17B
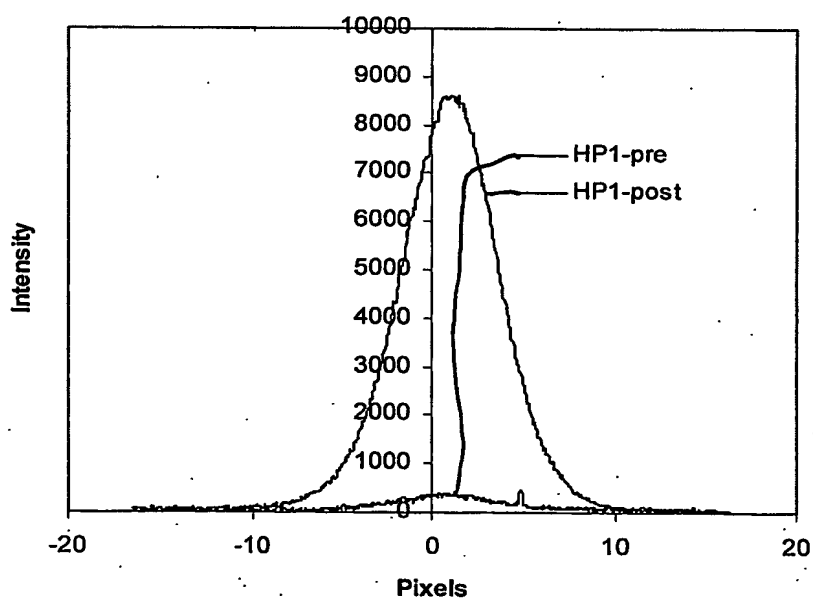
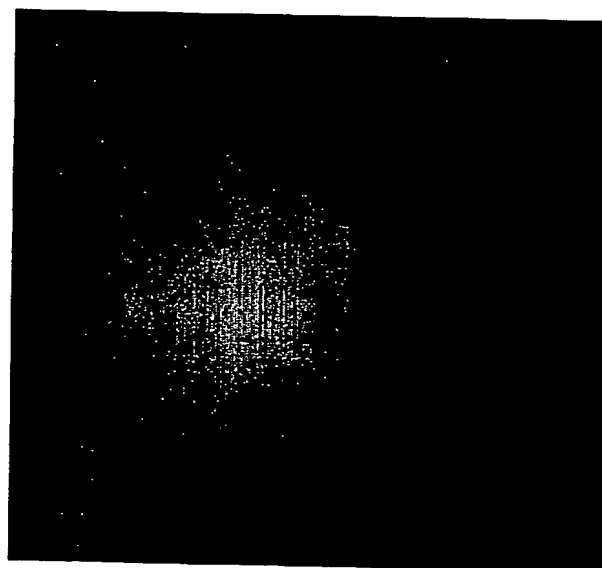**Figure 17C**

Figure 18A

Figure 18B

Figure 18C

Figure 19A

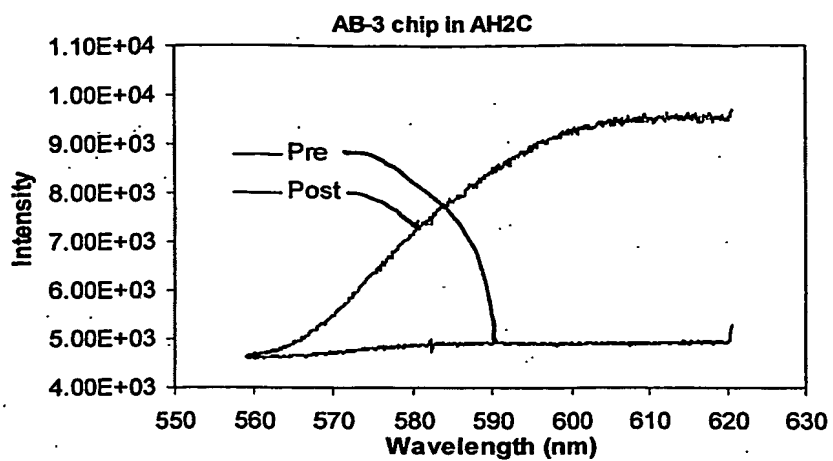**Figure 19B**

Figure 19C

Figure 19D

AB-3 chip in AH2C

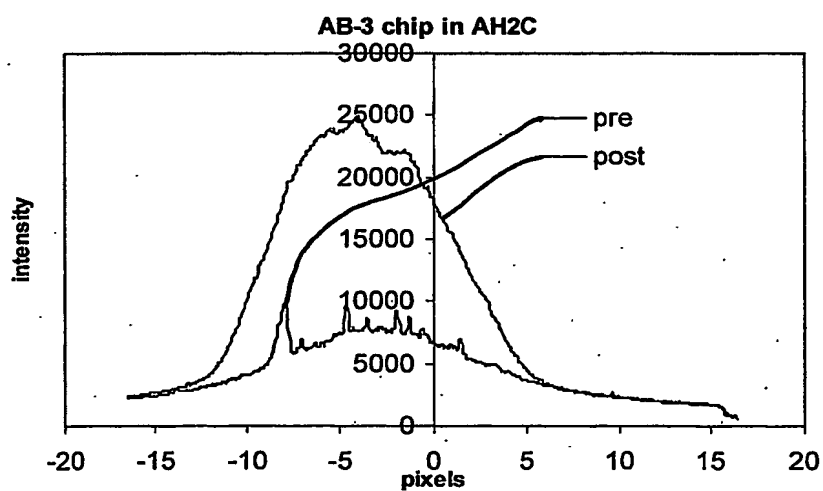Figure 20A

AB-3 chip in AH2C

Figure 20B

AB-3 chip in AH2C

Figure 20C

Figure 20D

AB-4 chip in BH2C

Figure 20E

AB-4 chip in BH2C

Figure 20F

AB-4 chip in BH2C
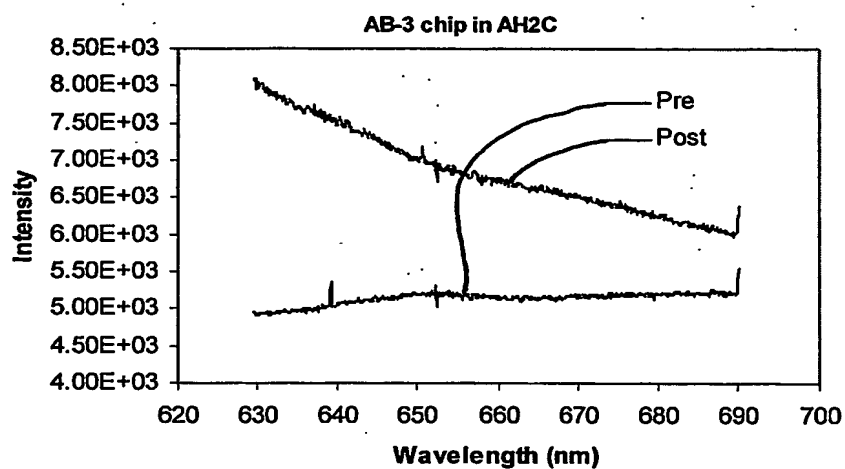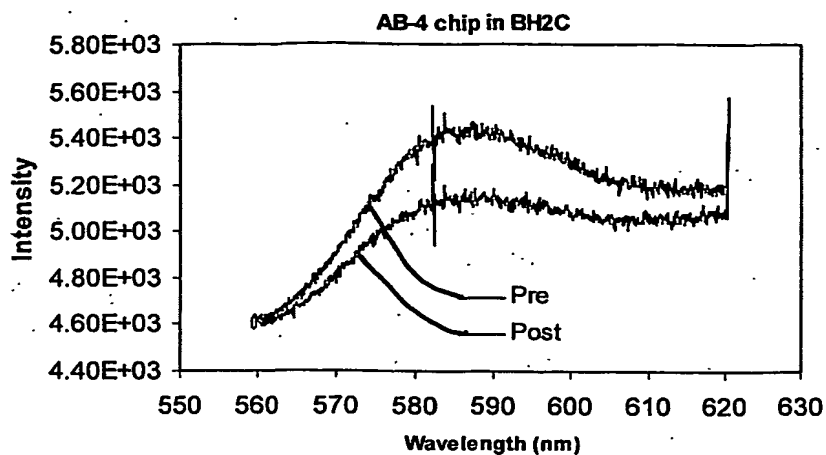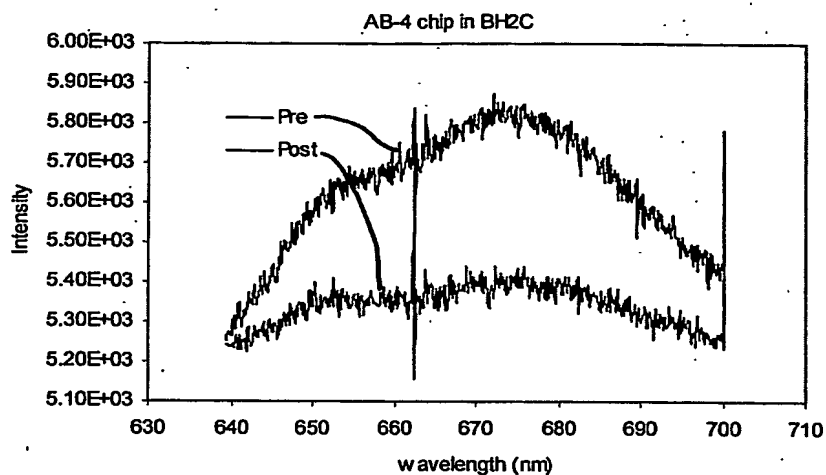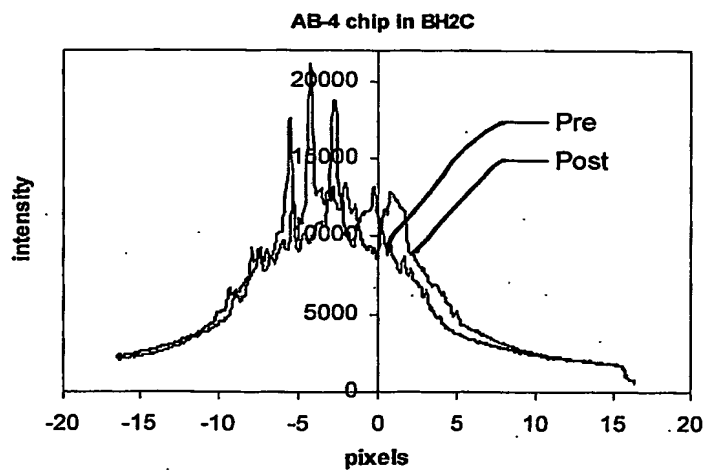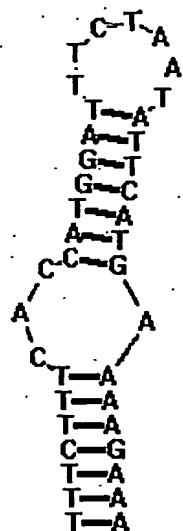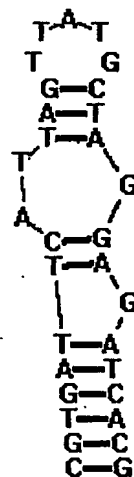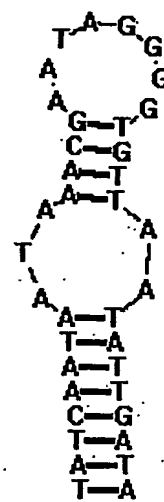
Figure 21

(E = - 4.4)

Figure 22

(E = - 3.8)

Figure 23

AH2

(E = -6.1)

Figure 24

BH2

(E = -3.5)